

MIDDLESEX UNIVERSITY



CATALOGUE OF THE JUNIOR COLLEGE

1939-1940

WALTHAM

MASSACHUSETTS

STATEMENT

The Annual Catalogue, published well in advance of the school year to which it applies, contains a condensed record of the Junior College Faculty and of the Courses of Instruction to be offered in the various Departments; and announcements relative to the calendar, requirements for admission and graduation, fees, examinations, and rules for student conduct.

The provisions of this catalogue are not intended to be taken as a basis for the contractual relationship arising between the University and its students. The purpose of the Officers and Trustees is continuously to improve the methods and standards of instruction, and they reserve to themselves the right and responsibility of altering at any time the curriculum, requirements, teaching personnel, fees, and rules, as circumstances may require, or as they may deem to the best advantage of the University.

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University Calendar

1939

July 10	Monday	Summer session begins.
Aug. 19	Saturday	Summer session ends.
Sept. 11 to 16	Monday to Saturday	First installment of tuition due.
Sept. 18 to 23	Monday to Saturday	Examinations for the removal of conditions.
Sept. 25	Monday	Fall Session opens.
Oct. 12	Thursday	Columbus Day. A holiday.
Nov. 11	Saturday	Armistice Day. A holiday.
Nov. 22 to 26	Wednesday to Sunday	Thanksgiving Recess.
Nov. 27	Monday	Classes resumed.
Dec. 18 to 23	Monday to Saturday	Second installment of tuition due.
Dec. 18, 1939, to Jan. 1, 1940	Christmas Vacation	

1940

Jan. 2	Tuesday	Classes resumed.
Feb. 5	Monday	Second Semester begins.
Feb. 22	Thursday	Washington's Birthday. A holiday.
Mar. 25 to 30	Monday to Saturday	Third installment of tuition due.
Mar. 25 to 31	Monday to Sunday	Spring recess.
April 1	Monday	Classes resumed.
April 19	Friday	Patriot's Day. A holiday.
May 30	Thursday	Memorial Day. A holiday.
June 8	Saturday	Seniors' Class Day.
June 9	Sunday	Baccalaureate Service.
June 10	Monday	Commencement Exercises.

Officers, Trustees, and Directors of Middlesex University

TRUSTEES AND OFFICERS

President

C. RUGGLES SMITH, A.B., A.M., Litt.B., LL.B.

First Vice President

FRANK L. WHIPPLE, A.B., A.M., B.D., M.D.

Second Vice President

JOHN M. RUSSELL, A.B., LL.B.

Third Vice President

JOSEPH I. CHESKIS, A.B., A.M., Ph.D.

Treasurer

JOHN HALL SMITH, M.D.

Secretary

HORATIO S. CARD, A.B., A.M., M.D.

Recorder

MABEL B. SMITH

TRUSTEES AND DIRECTORS

HOWARD CHARLES GALE, A.A., S.T.B., M.D.	Beverly
T. VINCENT CAMPAGNA, M.D.	Boston
HIRAM B. DONALDSON, Pod.G.	Boston
HAROLD M. KAPLAN, A.B., Ph.D.	Cambridge
CHARLES A. P. McAREE, A.B., A.M.	Haverhill
MARTIN L. MACDONALD, M.D.	Waltham
ROSE F. JANNINI, M.D.	Winthrop
HARRY R. BOLAN, A.B., M.D.	Cambridge
SOLOMON H. GORDON, B.S., Ed.M.	Boston
MARION B. MACCORMACK, M.D.	Housatonic
HUGH WALLACE SMITH, A.B.	Melrose
EDWARD D. LEETE, M.D.	Boston
THOMAS J. SMITH	Boston
CARL B. LINDHOLM	Pittsfield

Faculty of The Junior College

President

C. RUGGLES SMITH *English*
A.B., LL.B., Harvard; A.M., Litt.B., Columbia

Dean of the Junior College

JOSEPH I. CHESKIS *Modern Languages*
A.B., University of Paris; A.M., Ph.D., Harvard

WILLIAM NORTHROP MORSE *English, Public Speaking*
A.B., Amherst; A.M., Harvard

HAROLD M. KAPLAN *Biological Sciences*
A.B., Dartmouth; A.M., Ph.D., Harvard

WILLIAM LIBEN *Physics, Mathematics*
B.S., M.S., Sc.D., Massachusetts Institute of Technology

CHARLES A. P. McAREE *History*
A.B., Catholic University; A.M., Harvard

SOLOMON H. GORDON *Chemistry*
B.S., Massachusetts State College; Ed.M., Boston University

DAVID LYMAN DAVIDSON *Chemistry*
B.S., M.S., Ph.D., Brown University

GEORGE DEMETER *Government, Sociology*
A.B., Harvard; LL.B., Boston University

NATHAN R. BREWER *Biology*
B.S., D.V.M., Michigan State College;
Ph.D., University of Chicago

LEONARD W. GOULDE *Psychology*
B.S., A.M., Tufts College

BENJAMIN SPELFOGEL *Biology*
B.S., Boston University; A.M., Harvard

RICHARD SCHOFIELD *Animal Husbandry*
V.S., Ontario Veterinary College
B.V.Sc., University of Toronto

KATHERINE G. KELLEY *English*
A.B., Emmanuel College

N. WILLIAM COLEMAN *French*
A.B., Brown University

MILDRED ALBERT *College Librarian*



THE ADMINISTRATION BUILDING



THE JUNIOR COLLEGE QUADRANGLE

History

THE history of Middlesex University may be traced on the statute books of the Commonwealth of Massachusetts. The first of its component schools was chartered in 1849, and its development into a University was made possible by a series of legislative acts and charters in 1850, 1851, 1917, 1935, and 1937. It is empowered to confer degrees in Arts, Sciences, Medicine, Veterinary Medicine, Podiatry, and Chiropractic.

The charter of Middlesex University authorizes its Board of Trustees to receive and hold real or personal estate by gift, grant, devise, bequest, or otherwise, to an amount not to exceed five million dollars, and provides that the clear income of the institution shall be applied to the endowment of the University in such manner as most effectually to promote its general educational purposes.

Middlesex University has achieved a high reputation for its freedom from bigotry and intolerance, and from racial or religious discrimination. The perpetuation of this policy is assured by the terms of its charter, which provides that "No officer or instructor in said University shall ever be required by the trustees to profess any particular religious opinion as a test of office, and no student shall be refused admission to or denied any of the privileges, honors, or degrees of said college on account of the religious opinions he may entertain".

Purpose of The Junior College

The Junior College offers two years of academic instruction of college grade to properly qualified students who have satisfactorily completed their secondary school education.

Instruction in the various departments is designed to fulfill the needs of students who wish to prepare for admission to professional schools requiring one or two years of college work; and to provide a liberal education in the arts and sciences for those who have not the opportunity to complete the four years of study required for a college degree.

Grounds and Buildings

The ninety-six acre campus of Middlesex University, situated on wooded heights in the outskirts of Waltham, commands a view of the valley of the Charles River as it winds its course to Boston ten miles away. The rugged battlements of the Norman-Gothic group of University buildings, erected during the past ten years, rise from a high ledge of rock, and the silhouette of their towers and parapets presents the aspect of a medieval castle. The administrative offices and library of the University, as well as the classrooms and laboratories of the Junior College, the School of Medicine, and the School of Veterinary Medicine, and the extensive stables and barns of the department of Animal Husbandry, are situated on the Waltham campus.

The Junior College has its own classroom building on the Waltham campus; three laboratory buildings, two stories in height, house its completely equipped chemistry, physics, and biology laboratories. The Junior College shares with other departments of the University the use of the Students' Building, containing over 500 lockers and a spacious smoking room; and the Administration Building, in which the records and files of the entire student body and alumni are kept.

The Back Bay Building, located at 415 Newbury Street, in the

heart of the professional district of up-town Boston, houses the classrooms, clinics, and laboratories of the School of Podiatry and of the School of Pharmacy. It also contains an auditorium, large enough to accommodate the entire student body of the University, and a spacious gymnasium with a basketball floor and an indoor running track.

Library

The Library of the Junior College is situated in the Library Building which forms the western part of the University quadrangle on the Waltham campus. It contains about 4000 volumes, including a large number of standard modern text-books, the modern language classics and books of reference. Substantial additions to the Library are being made annually. The best professional and general magazines are now being added to the subscription list.

These volumes are fully catalogued, and a trained librarian is in charge at all times. Students also have access to the great resources of the Boston Public Library, to the Waltham Public Library, and to the Library of the Medical School.

Laboratories and Collections

The Junior College laboratories are spacious, well-lighted, and are supplied with gas, water, electricity, and refrigeration. There are apparatus rooms and departmental offices. The laboratories are equipped with microscopes, incubators, paraffin ovens, microtomes, and complete sets of glassware, chemicals, and other materials. There are available a dark room and photographic equipment with microprojection lanterns, motion picture projectors, and photomicrographic apparatus. Anatomical specimens, including the complete sets of bones of various animals are assembled and available for study in the zoological courses.

Student Accommodations

The future building plans of Middlesex University call for the construction of a dormitory on the Waltham Campus. At the present time students find satisfactory living quarters within walking distance of the classrooms. Room and board may be secured with a private family at an average weekly cost of \$10.00, and there are a number of conveniently located restaurants. The University maintains a list of approved rooming houses.

Students arriving from out of town are advised to call first at the Back Bay Building where an appointment can be made for an interview with the Registrar before proceeding to the Waltham Campus.

Scholarship and Loan Funds

The Bangs-Perrins Scholarship was founded and endowed by Dr. John Hall Smith in memory of Professor Charles Howard Bangs and President John Perrins, both prominent in the early history of Middlesex College. The income from this fund provides a limited number of full scholarships available to both men and women, citizens of Massachusetts, in any department of the University. Applicants for these scholarships must have very high scholastic standing and must be in actual need of financial assistance. Continuance of the scholarship from one year to another depends upon the recipient's moral, social, and scholastic qualifications. All scholarship applicants must have a personal interview with the President and Dean of the respective School.

There are also available a limited number of service scholarships covering the cost of tuition. Recipients of these scholarships must have proper qualifications to serve as laboratory assistants or otherwise.

The Roger Sherman York fund for student loans makes it possible for a limited number of applicants to borrow a portion of their tuition fees, and to repay these advances during the summer vacation or after graduation.

Requirements for Admission

The Junior College is coeducational. All candidates for admission must present satisfactory evidence of having attained the educational qualifications required for graduation from a recognized public high school, or from an approved preparatory school, or of the successful completion of at least 15 units of high school work. A unit represents one year's work in one subject at high school, or five hours of instruction a week during the school year.

It is recommended that a candidate for admission to the Junior College complete a high school course including four units of English, two units of Algebra, one unit of Geometry, two units of French or German, two units of History, one unit each of Latin, Physics, Chemistry, Biology. These high school subjects are recommended rather than required, and students who have been graduated with an equivalent number of units differently distributed will be admitted if their general selection of subjects and their scholastic standing is satisfactory.

Applicants who have attended one or more years of instruction in a college of approved academic grade may be admitted to advanced standing and receive credit for courses completed. In all cases, however, a candidate for a degree must complete his final year of college work at Middlesex University.

Discipline and Dismissal

The University reserves the right to dismiss at any time a student whose deportment or scholarship is unsatisfactory, and to refund a proportional part of the current tuition fee he has paid. Admission to the University is in all cases for one year only, and readmission may be denied without explanation.

Admission as a Special Student

Applicants of mature age may be admitted as special students without satisfying the general entrance requirements of the re-

spective schools, provided they give evidence of adequate preparation for the course elected. Special students, however, will not be accepted as candidates for any degree conferred by the University.

Examinations and Promotion

A student will not be admitted to the final examinations in any course unless his class record, attendance, and laboratory work in that subject are satisfactory, and all of these elements will be considered in the determination of his final grade. Marks are given in all courses on a percentage basis, and a grade of seventy-five per cent is required to pass the course.

A student will not be allowed the privilege of final examinations, or be given his final grades in any course, until he has satisfied all of his financial obligations to the University.

The Committee on Promotion, consisting of Administrative Officers and members of the Junior College Faculty, review the work of the student at the end of the first year of the course. It is within the province of the Committee on Promotion to decide whether a student shall be promoted to the next class, shall be permitted to take further instruction in the Summer Session and examinations for the removal of conditions in September, shall be required to repeat the year's work, or shall be denied further registration in the Junior College by reason of unsatisfactory scholarship.

The mere attainment of passing grades does not insure promotion. The continuance in good standing of any student is also contingent upon his faithful adherence to the rules and regulations of the University, as well as his observance in extra-curricular activities of a high moral standard.

Any student who voluntarily withdraws from the Junior College for proper reasons forfeits his standing, but may apply for re-admission in a subsequent year. If not too long a time has elapsed, and if changes in the rules of promotion or in the curriculum do not render such an admission impractical, his application should receive favorable consideration.

Requirements for Graduation

A candidate for graduation must have successfully completed sixty-four semester hours of instruction in the Junior College. If the candidate was pursuing a preprofessional course, he must also have passed all the courses required for admission to professional school. The candidate must be of good moral character, and must have fulfilled all of his financial obligations to the University.

Candidates for the degrees of Bachelor of Science and Bachelor of Arts must have successfully completed four years of study, comprising not less than 122 semester hours of instruction.

Fees and Expenses

The tuition in Junior College amounts to \$200.00 a year, payable in four installments. The expense for text books and equipment is approximately \$35.00 a year, but varies slightly in the different courses. The verification fee of \$10.00 is payable by new students with the application blank and is not subject to refund. The matriculation and reservation fee of \$25.00 is payable each year when the application is accepted and is not subject to refund. The balance of the tuition, \$175.00, is payable in three installments of \$60.00, \$55.00, and \$60.00 respectively, on the dates indicated in the University calendar. Students obliged to withdraw from college may petition the Board of Trustees for a partial refund of tuition, but the granting of such refund will be entirely at the discretion of the Board of Trustees.

Fees are payable only by postal money order, certified check, cashier's check, express money order, or telegraph order. Remittances must be made by mail to Middlesex University, Box 310, Waltham.

Any student whose installment of indebtedness to the college remains unpaid on the date fixed for final payment is deprived of the privileges of the college until he is reinstated. Reinstatement is obtained only by consent of the Board of Trustees after payment of all indebtedness and a reinstatement fee of \$10.00. This charge is also payable, in the form of a late-registration fee, by all students who may be permitted to enroll in the College after the date set for payment of the first installment of the tuition.

There are no laboratory fees, but students will be charged for any unreasonable waste or breakage of materials, or any damage to apparatus or other property of the University.

Medical Attendance

A medical adviser with offices in Waltham in the vicinity of the campus will be available for consultation by students. He may also be seen by appointment at the Administrative Office. A routine medical examination of each member of the entering class will be made at the beginning of the academic year.

Any illness necessitating absence from class must be reported to the medical adviser. Attendance during all class and laboratory exercises is required. Students who are absent, for any considerable time, on account of illness or for other unavoidable reason, must present medical certificates or other satisfactory evidence in justification of their absence.

Courses of Instruction

The Junior College offers instruction in the five principal departments of English, Mathematics and Physics, Modern Languages, Social Sciences, and Natural Sciences.

The Premedical Course

Middlesex College offers a two year premedical course designed to fulfill the requirements for admission to the School of Medicine, and the University reserves a place in the first-year class of the School of Medicine for those applicants who successfully complete the premedical course in the Junior College.

The two year premedical course includes the following subjects:

<i>First Year</i>		<i>Second Year</i>	
<i>Subject</i>	<i>Semester Hours</i>	<i>Subject</i>	<i>Semester Hours</i>
English	6	English	6
Chemistry	8	Physics	8
Biology	6	Chemistry	6
Modern Language . .	4	Biology	6
History	4	Modern Language . .	4
Mathematics	2	History	2
Government	2		

With the consent of the premedical adviser courses in Psychology, Economics, and Sociology may be substituted for any of

the courses listed above except the basic sciences and English. The purpose of this premedical course is to provide the student with a sufficient knowledge of the fundamental natural sciences to prepare him for medical study, and in addition, to afford him an introduction to the general field of cultural study. In a two-year course emphasis must be placed upon a study of the basic sciences, and the amount of time that may be devoted to courses of an academic and cultural nature is necessarily limited. The premedical course includes 64 semester hours and covers an amount of instruction equivalent to more than one-half of the credit required for the baccalaureate degree.

The Preveterinary Course

The Junior College offers a one-year preveterinary course designed to fulfill the requirements for admission to the School of Veterinary Medicine, and the University reserves a place in the first-year class of the School of Veterinary Medicine for all applicants who successfully complete the preveterinary course in Middlesex College.

The one-year preveterinary course covers thirty-five semester hours, and includes the following subjects:—

<i>First Semester</i>	<i>Second Semester</i>
English 3(3-0)	Botany 3(2-3)
Zoology 3(2-3)*	(Including Poisonous Plants)
Inorganic Chemistry . 4(2-4)	English 3(3-0)
Mathematics 2(2-0)	Inorganic Chemistry . 4(2-4)
Animal Husbandry—	Physics 3(2-3)
Breeds 4(4-0)	Animal Husbandry—
	Feeds 3(3-0)
	Dairy 3(3-0)

*Semester hours (lecture hours—laboratory hours).

In view of the possibility that the requirements for admission to the School of Veterinary Medicine may be increased, the College of Arts and Sciences contemplates extending the minimum preveterinary course to two years beginning with the session of 1940-1941.

The Seven-Year Combined Premedical and Medical Course

The College of Arts and Sciences, in conjunction with the School of Medicine, offers a seven-year course leading to the degrees of Bachelor of Science and Doctor of Medicine. The first three years are spent in the College and are devoted to premedical and cultural study, and the degree of Bachelor of Science is conferred upon the successful completion of the first year of the four-year course in the School of Medicine.

The three-year premedical course includes the following subjects:

<i>First Year</i>		<i>Second Year</i>	
<i>Subject</i>	<i>Semester Hours</i>	<i>Subject</i>	<i>Semester Hours</i>
English	6	English	4
Chemistry	8	Physics	8
Biology	6	Chemistry	8
Modern Language	4	Modern Language	4
History	4	Biology	6
Mathematics	2	History	2
Government	2		

Third Year

<i>Subject</i>	<i>Semester Hours</i>
English	4
Biology	6
Chemistry	6
Economics	4
Psychology	4
Mathematics	4

The Seven-Year Combined College and Veterinary Course

The College of Arts and Sciences, in conjunction with the School of Veterinary Medicine, offers a seven-year course leading to the degrees of Bachelor of Science and Doctor of Veterinary Medicine. The first three years are spent in the College and devoted to pre-veterinary and cultural study, and the degree of Bachelor of Science is conferred upon the subsequent completion of the first year in the School of Veterinary Medicine.

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The three-year preveterinary course includes the following subjects:

<i>First Year</i>		<i>Second Year</i>	
<i>Subject</i>	<i>Semester Hours</i>	<i>Subject</i>	<i>Semester Hours</i>
English	6	English	4
Chemistry	8	Physics	6
Zoology	6	Chemistry	4
Modern Language . . .	4	Modern Language . . .	4
Animal Husbandry . . .	4	Biology	6
Mathematics	4	Social Science	4
		Animal Husbandry . . .	4
 <i>Third Year</i>			
	<i>Semester Hours</i>		
English	6		
Animal Husbandry . . .	4		
Chemistry	6		
Economics	4		
Psychology	4		
Government	6		

Description of Courses

BIOLOGY

101. BOTANY. (First semester.)

A general course in elementary botany, including a survey of the plant types, and treating the morphology, physiology, and ecological relationships of the various members of the plant kingdom. Two lectures and one laboratory period each week, three semester hours.

102. ZOOLOGY. (Second semester.)

An elementary course in general zoology, arranged to illustrate the relationships existing among animals. There are included a general survey of animal types, and complete life history studies of certain important forms. Attention is given to the problems of development, genetics and evolution. Two lectures and one laboratory period each week, three semester hours.

201. COMPARATIVE VERTEBRATE ANATOMY.

Completion of Biology 102 or its equivalent is required for admission to this course. It involves a detailed study of the systems and organs in vertebrates, their functions and evolution. There are studied by laboratory dissection, *Amphioxus*, the dogfish, *Necturus*, the turtle, and particularly the cat. There are frequent demonstrations, and opportunity for the student to learn injection and embalming methods for animals. Four lectures and two four-hour laboratory periods weekly, six semester hours.

202. PHYSIOLOGY AND HYGIENE.

A study of the general field of knowledge of health and disease is treated by text book, lectures, discussion and demonstration. The student is acquainted with the principles of body care, disease prevention, first aid, and the functions of the organ systems. Two semester hours.

203. HISTOLOGY.

A course in microscopic anatomy dealing with the elementary structure and physiological function of cells, tissues, and organs

of the body. This course includes extensive laboratory work, and is given by the faculty of medicine. It may be elected only by advanced students in the College of Arts and Sciences.

204. EMBRYOLOGY.

This study of spermatogenesis, oogenesis, the growth and development of vertebrate tissues, organs, and systems is also a part of the medical curriculum. It includes laboratory work, and may be elected only by advanced students in the undergraduate school.

CHEMISTRY

101-2. GENERAL INORGANIC CHEMISTRY.

An introductory course dealing with the elements, their compounds, and the fundamental laws and theories of chemistry. This course includes laboratory work, covers eight semester hours, and is required of premedical students.

201-2. ORGANIC CHEMISTRY.

Completion of Chemistry 101-2 or its equivalent is required for admission to this course, which includes a study of the carbon compounds, of both aliphatic and aromatic derivatives, and is required of all premedical students. The instruction includes laboratory work, and covers eight semester hours.

203. QUALITATIVE ANALYSIS.

The course includes laboratory work in the detection and separation of the common acids and bases. The prerequisite is Chemistry 101-2, and the course covers four semester hours.

204. QUANTITATIVE ANALYSIS.

A study of the gravimetric and volumetric determination of the common elements and radicals. Chemistry 101-2 and 203 are prerequisites, and four semester hours are covered.

205-6. BIOCHEMISTRY.

A study of the chemical substances and reactions involved in the physiological processes of animals and plants. This course is given by the medical faculty and is open to advanced students in the academic department.

ECONOMICS

101-2. PRINCIPLES OF ECONOMICS.

An elementary course in the fundamental concepts of economics, including a consideration of their development and organization; the laws of money, credit, banking, exchange; production and distribution; the profit system and labor problems; unemployment and the business cycle. Four semester hours.

201-2. ADVANCED ECONOMICS.

This course applies the principles of economics to problems arising in the economic history of the United States, including railroad transportation, the rise and control of industrial monopolies, insurance, speculation, inflation, organization, labor movements, and the distribution of wealth and income. Four semester hours.

ENGLISH

101-2. ENGLISH COMPOSITION.

This course includes a review of the principles of grammar and is designed to promote careful writing and to eliminate common errors in expression. It is required of all students who show deficiency in the common use of English. Four semester hours.

103-4. HISTORY OF ENGLISH LITERATURE.

A general survey of the principal periods of English Literature from its beginning to the present day. The lectures are supplemented by quizzes, assigned reading, and book reports. Four semester hours.

201-2 AMERICAN LITERATURE.

Completion of English 103-4 or its equivalent is required for admission to this course, which includes a survey and critical study of American Literature from colonial days to the present time. The lectures emphasize the development of the American Novel. Collateral reading and book reports are required. Four semester hours.

203. MODERN DRAMA.

This course surveys the development of Modern Dramatic Literature in England and America, and a consideration of the

principles of dramatic criticism. Assigned work includes the reading of many plays and the writing of reviews. Three semester hours.

204. PUBLIC SPEAKING.

The theory and practice of oral expression for public and private address. Drilling in voice placement and enunciation. Three semester hours.

205-6. ELEMENTARY JOURNALISM.

This course includes instruction and practice in the reporting and writing of news, the fundamentals of copy editing, headline writing, and newspaper make-up, and a study of the methods employed in the leading metropolitan papers and press services. Practical work is given in the gathering of news material, and the preparation of stories for publication. Six semester hours.

FRENCH

101-2. ELEMENTARY FRENCH. (Four semester hours)

This course is designed for those who have not passed college entrance examinations in French. It covers the principles of French Grammar, practice in reading, speaking, and writing French.

103-4. INTERMEDIATE COURSE. (Four semester hours)

This course presupposes two years of High School French or the equivalent of Elementary French, and includes a review of grammar, training in composition and speech, and the reading of prose and drama.

201-2. ADVANCED COURSE. (Four semester hours)

This course is open to those who have had one or more years of French in college, and includes oral and written composition, the reading of scientific and classical French works, and extensive use of the language in the class-room.

203-4. FRENCH LITERATURE. (Four semester hours)

This course presupposes an understanding of the French language, and includes a study of the various periods of French Literature and a consideration of the works of leading classical and modern French authors. The course is largely conducted in French.

GEOLOGY

101-2. ELEMENTARY GEOLOGY. (Six semester hours)

A course consisting of lectures, laboratory work, and field work, relating to the origin, character, and effect of man's physical environment. A study is made of the structure of the earth and the processes of change.

GERMAN

101-2. ELEMENTARY GERMAN. (Four semester hours)

This course covers the fundamentals of grammar, and includes training in translation and composition.

103-4. INTERMEDIATE COURSE. (Four semester hours)

This course is intended for those who present German as an entrance requirement or who have completed German 101-2. It includes a review of grammar and composition, the reading of German prose, and training in the oral and written use of German.

201-2. GERMAN LITERATURE. (Four semester hours)

This course is intended for those who have a sufficient knowledge of the German language to enable them to read and appreciate modern and classical German authors.

203. SCIENTIFIC GERMAN. (Two semester hours)

An advanced course in the reading and writing of technical and scientific German.

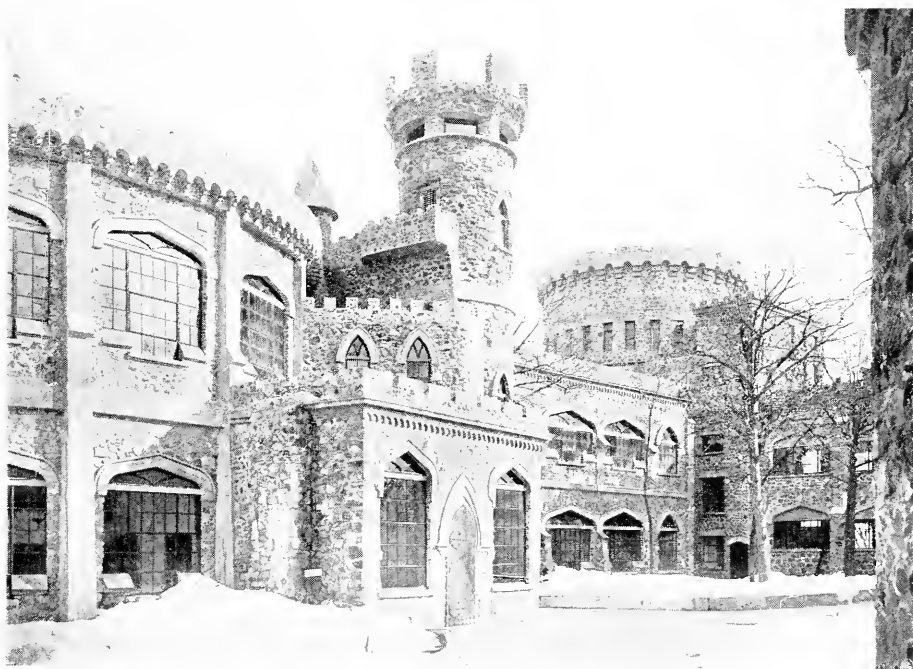
GOVERNMENT

101. AMERICAN GOVERNMENT.

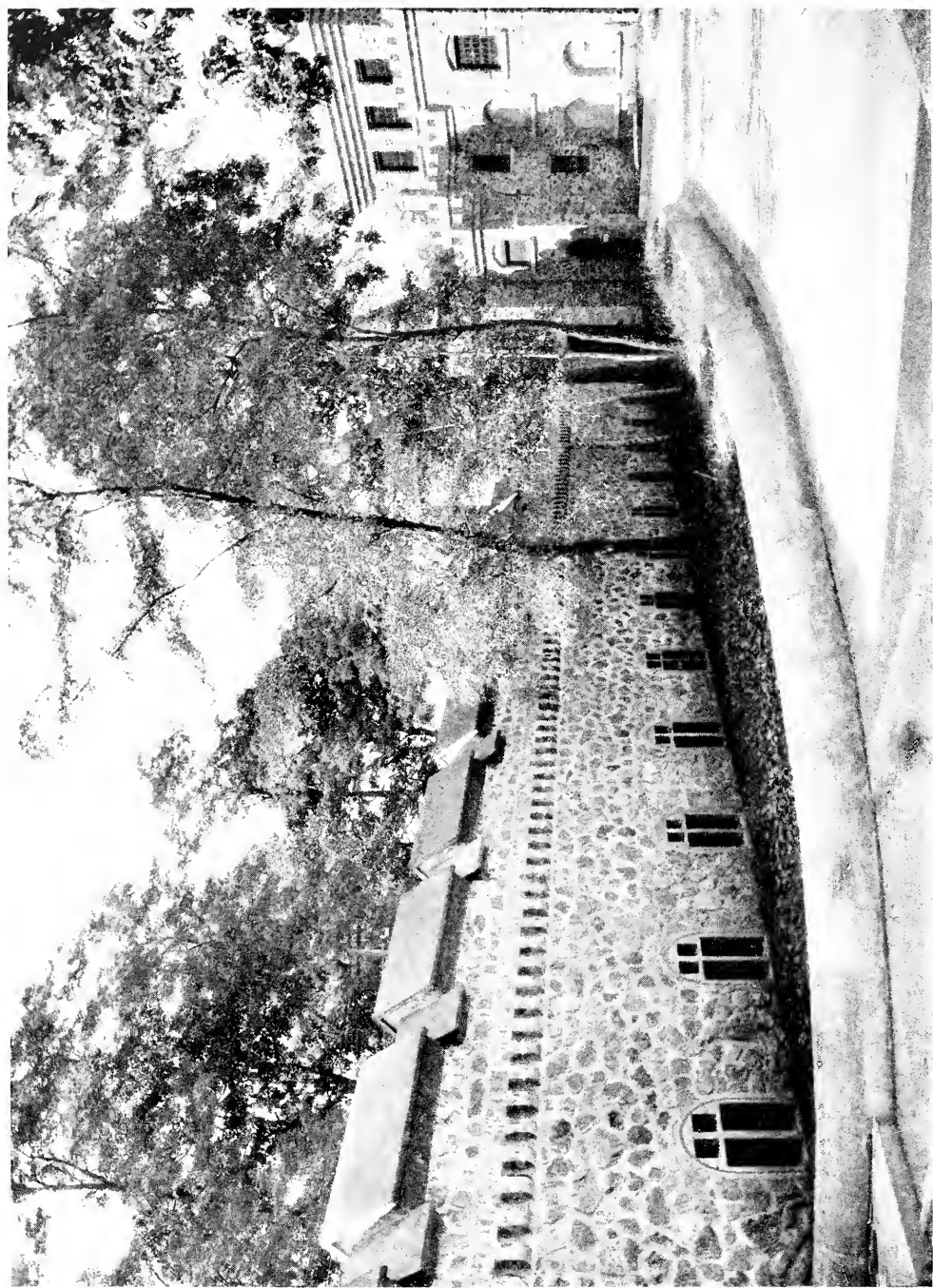
This course offers a practical and well-organized study of the political framework of our National and State Governments, based on the following topics: Constitution of the United States; the President—his powers and duties; National political conventions; the Cabinet; the Congress,—Senate and House of Representatives; the Courts; the Governor—his powers and duties; the State Legislature, Committees, Legislative Procedure and Enactment of Laws. First half year. Two semester hours.

102. EUROPEAN GOVERNMENTS AND POLITICS.

This course traces the development of the forms of government



THE UNIVERSITY QUADRANGLE



LIBRARY AND READING ROOM

of the principal European nations, and emphasizes the importance of recent changes in European politics. Second half year. Two semester hours.

HISTORY

101-2. EUROPEAN HISTORY.

A survey of the history of Western Europe from the Fall of the Roman Empire to modern times. A panoramic study of the trends and changes in the political, social, and economic life of Europe. Four semester hours.

201-2. AMERICAN HISTORY.

A survey of the development of the United States as a nation and a world power, tracing the economic and political growth from the age of discovery and colonization through the Revolution, the era of westward sweep, the Civil War, reconstruction, and industrial and corporate expansion, to the World War, and the problems of the present. Four semester hours.

203. HISTORY OF MODERN FRANCE.

A study of the development of the French nation from the Revolution through the Napoleonic Era, the Second Empire, the Republic, the Franco-Prussian War, and the World War, to the period of re-armament. First half year. Two semester hours.

204. HISTORY OF MODERN GERMANY.

This course outlines the moulding of a world power from the German states, the career of Bismarck, the results of the Franco-Prussian War, the period of colonization and increasing friction with England, the World War, the Revolution, and the rise of Hitler. Second half year. Two semester hours.

LATIN

101. LATIN DERIVATIVES.

This course is designed to familiarize premedical students with the classical derivatives used in modern medical terminology. One semester hour.

MATHEMATICS

101-2. COLLEGE ALGEBRA.

Linear, quadratic and algebraic equations; permutations and combinations; infinite series; mathematical induction and determinants. Four semester hours.

201-2. ANALYTIC GEOMETRY.

The fundamental properties of conic sections and a brief introduction to the geometry of three dimensions. Four semester hours.

203-4. CALCULUS.

Differential and integral calculus, and geometrical and physical applications. Four semester hours.

PHILOSOPHY

201. HISTORY OF PHILOSOPHY. (Two semester hours)

A survey of philosophical speculation from the days of Socrates and Plato to the Twentieth Century.

202. MODERN PROBLEMS IN PHILOSOPHY. (Two semester hours)

A discussion and analysis of the vital ethical problems of the present day, and an application to them of the philosophical principles of other periods. The principles of logic and the teachings of leaders of modern thought are considered.

PHYSICS

101-2. GENERAL PHYSICS.

An introductory course in the elementary principles of mechanics, heat, magnetism, electricity, sound and light. Lectures and laboratory experiments. Eight semester hours.

201-2. HEAT, SOUND, AND LIGHT.

A course open to those who have completed an introductory course in physics. Lectures and laboratory work in those aspects of heat, sound, and light which have some relation to the science of medicine, including geometric and physical optics. Six semester hours.

203-4. MODERN PHYSICS.

Open to students who have completed Physics 101-2. A lecture and laboratory course on phenomena, theories, and methods of contemporary physics, including a consideration of alternating currents, electromagnetic waves, thermionics, photo electricity, ultra violet radiation, X-rays, radio-activity, geophysics, astrophysics, and relativity. Six semester hours.

PSYCHOLOGY

101-2. GENERAL PSYCHOLOGY. (Four semester hours)

A brief survey of the elements of sensation, perception, imagination, memory, thought, volition, and the affective mental states; the driving forces of human nature; character, instinct, and habit; experience and behavior; unconscious and subconscious mental states; the abnormal mind.

201-2. APPLIED PSYCHOLOGY. (Four semester hours)

The methods of adjustment utilized by abnormal personalities; a study of the bases of personality types; the determination of the physiological processes accompanying certain types of behavior. The lectures are supplemented by experimental work, demonstrations, and field trips to state institutions.

203. PSYCHOMETRICS. (Three semester hours)

This course trains the student in the use of the latest Stanford Revision for administering the test for general intelligence. Testing practice is provided at a settlement house.

SOCIOLOGY

201-2. INTRODUCTION TO SOCIOLOGY. (Four semester hours)

A study of the science of human society including a consideration of human origins and development based on the science of anthropology; the relation of the family and the state; the problem of social control of delinquency, crime, pauperism, and insanity; the effect of heredity and environment on social evolution.

GIFTS AND ENDOWMENT

Middlesex University is authorized by the Massachusetts Legislature to receive and hold donations, legacies, and bequests of real and personal property to an extent not to exceed five million dollars, and to use such property or the income therefrom for its general educational purposes.

The School of Medicine and the Junior College are now in immediate need of substantial endowment funds. The Trustees will be glad to receive specific gifts of books, equipment, or material for the use of any department of the University; and would be very grateful for any donation to the endowment of the University.

Bequests may be made in the following form:

I give to the Trustees of Middlesex University, an educational institution incorporated under the laws of the Commonwealth of Massachusetts, the sum of_____dollars, to be applied to the general purposes of the University.

MIDDLESEX UNIVERSITY

JUNIOR COLLEGE

Preprofessional Courses, Arts and Sciences



COLLEGE OF ARTS AND SCIENCES

A.B. and B.S. Degrees



SCHOOL OF MEDICINE, M.D. Degree

Two-year premedical requirement



SCHOOL OF VETERINARY MEDICINE, D.V.M. Degree

One-year preveterinary requirement



SCHOOL OF PODIATRY

Three-year Didactic and Clinical Course



SCHOOL OF PHARMACY

Two-year Comprehensive Course

WALTHAM — MASSACHUSETTS